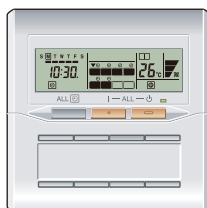
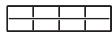






2-5. Group remote controller (UTY-CGG*)

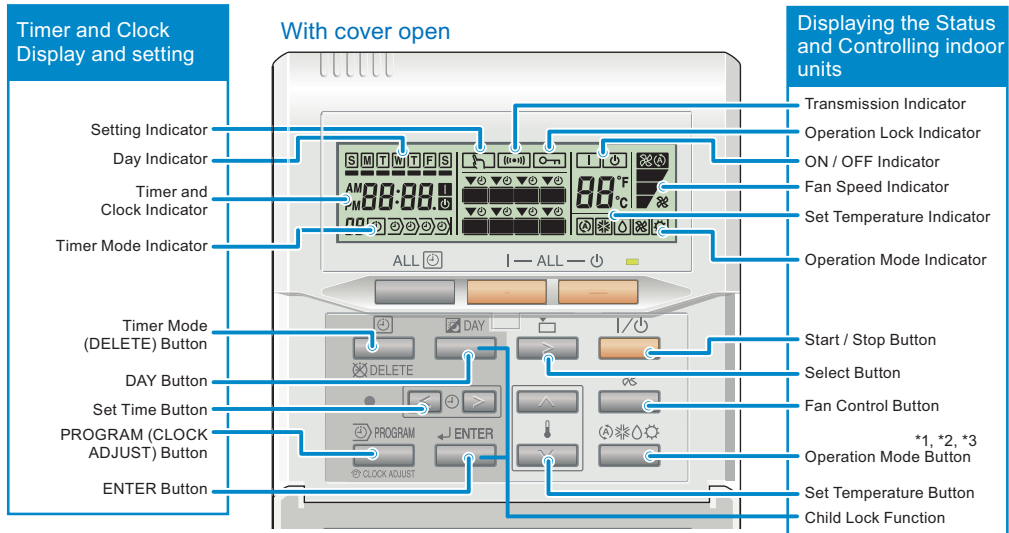
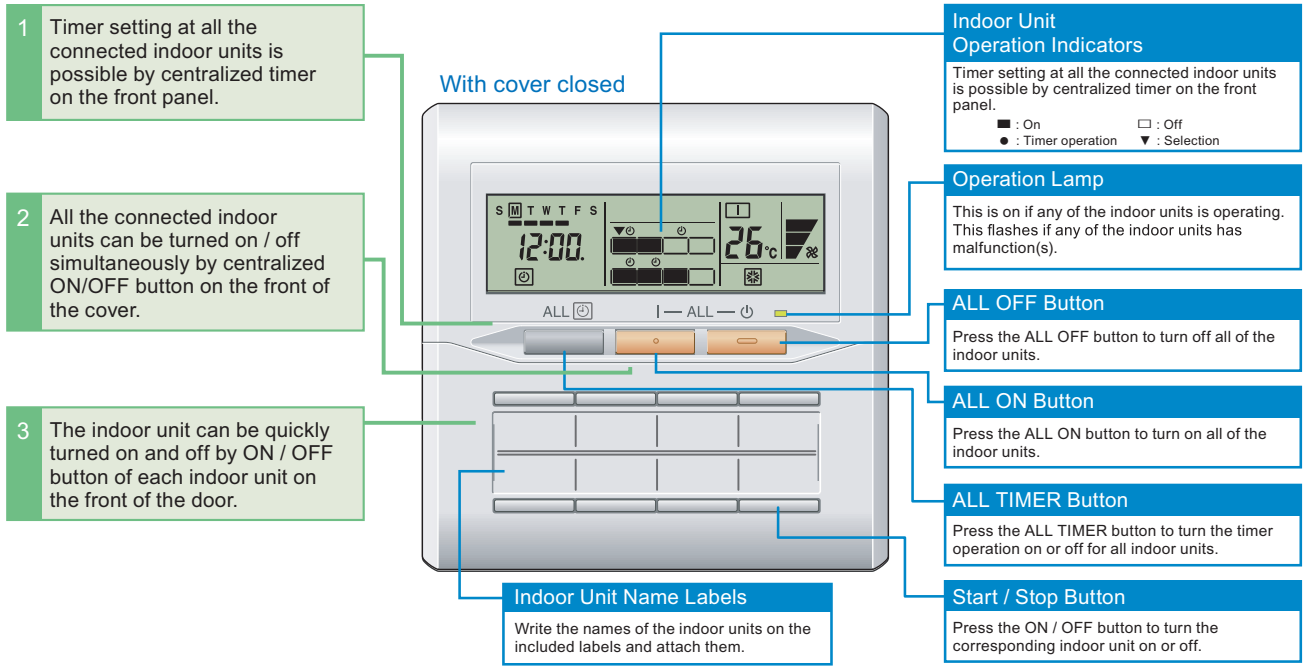


- Control and monitoring of up to 8 remote controller group is possible with one group remote controller.
- The optional Network converter (UTY-VGGXZ1) allows up to 4 Group remote controllers to be incorporated within the control layout. This flexibility is ideal for a number of different building sizes, types, and applications.
- Up to 64 Group remote controllers (with 16 Network converters UTY-VGGXZ1) can be connected in one VRF network system.
- Start/Stop, operation mode, set temperature, timer control, and fan speed can be controlled/monitored centrally or individually.
- Easy installation with a slim shape with no bulge in the back
- One-touch start/stop operation of each indoor unit is possible. All indoor units can also be easily operated by pressing an All ON, ALL OFF, or ALL TIMER ON/OFF button.

■ Accessory

Name and shape	Q'ty	Application
 Label	4	For writing the names of the indoor units that have been registered
 Screw	2	For installing the remote controller
 Cable tie	1	For remote controller and remote controller cable binding
 Installation manual	1	
 Operation manual	1	

Overview



*1: "AUTO(A)" is not available for a heat pump model unless it is set up as an administrative indoor unit.

*2: "FAN(F)" is not available for a heat pump model.

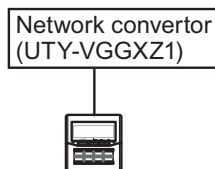
*3: "HEAT(H)" is not available for a cooling only model.

CONTROL SYSTEM

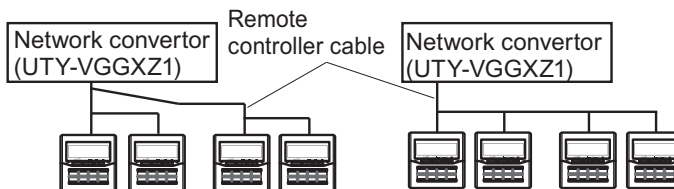
CONTROL SYSTEM

System diagrams

- When one group remote controller is connected:



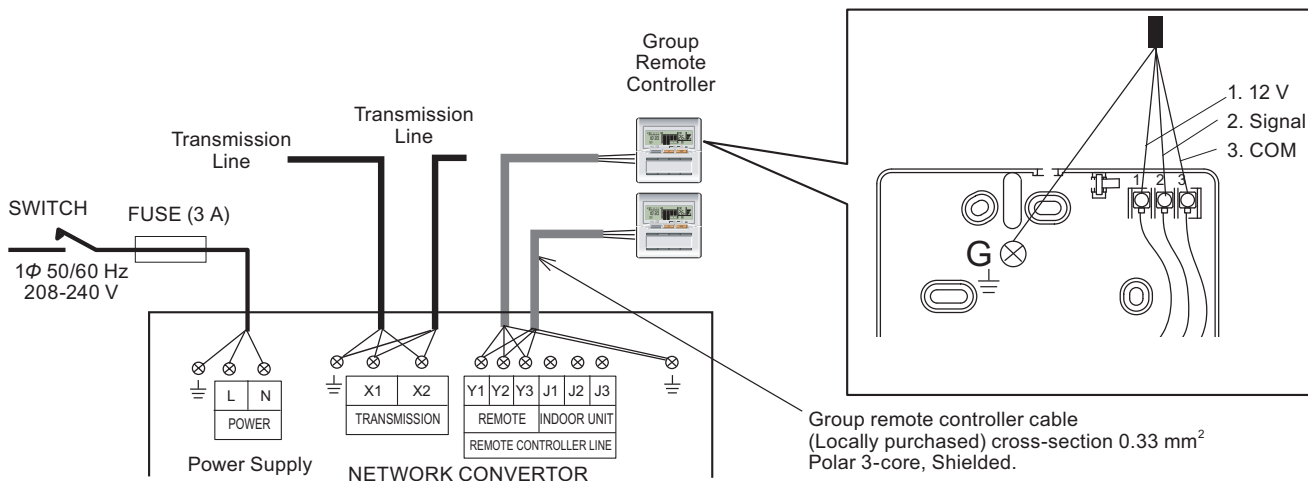
- When multiple group remote controllers are connected:



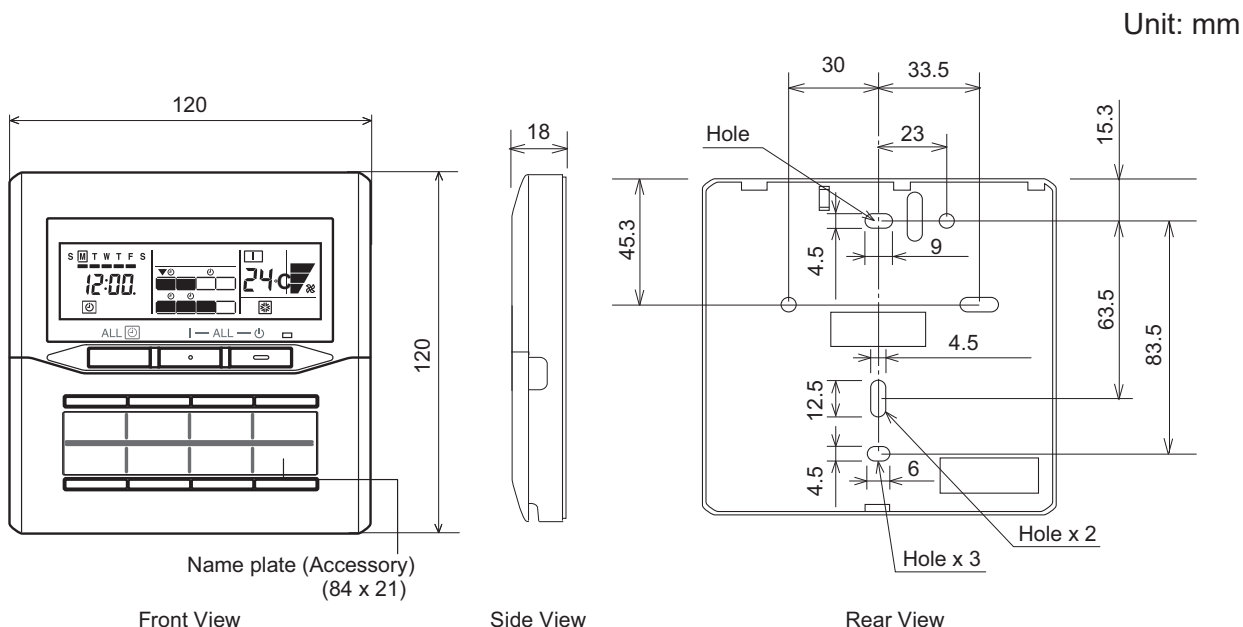
NOTES:

- Total remote controller cable length: Max. 100 m
- Connectable group remote controller: Max. 4 units/convertor
- Use of a terminal box is recommended when a junction is made in the wiring.

Electrical wiring



Dimensions



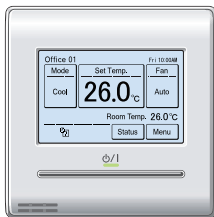
■ Specifications

Power source voltage	V	1 Ø AC 100—240	
Power source frequency	Hz	50/60	
Input power	W	3	
Display		5.0-inch TFT color LCD panel (QVCA)	
LED indicator		Power LED (Green)	
External interface		Transmission line	
		External input: Either emergency stop, batch operation/stop, electricity meter (Either Dry contact or apply voltage can be selected.)	
		External output: Operation state, error state	
		Reset switch	
Usage temperature range	°C	0 to 40	
Usage humidity range	%	0 to 85 (no condensation)	
Storage temperature range	°C	-20 to 70	
Storage humidity range	%	0 to 85 (no condensation)	
Dimensions (H × W × D)	Control unit	mm	120 × 162 × 25.7
	Power supply unit		99 × 135 × 39.2
Weight	Control unit	g	308
	Power supply unit		355
Fuse capacity	A	5	

● Wiring specifications






Use	Cable size	Wire type	Remarks
Remote controller cable	0.33 mm ² (22 AWG)	Polar 3-core	Use sheathed PVC cable or shielded cable in accordance with regional cable standard.

2-6. Wired remote controller (Touch panel: UTY-RNR*Z*)

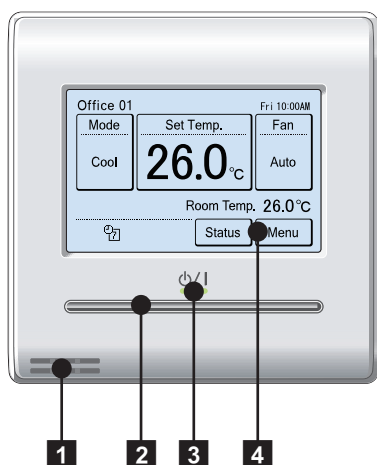


- Easy finger touch operation with LCD panel.
- Built-in Weekly/Daily time (On/Off, Temp., Mode)
- The backlit LCD enables easy operation in a dark room.
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 12 different languages (English, Chinese, French, German, Spanish, Russian, Polish, Italian, Portuguese, Greek, Turkish, and Dutch)

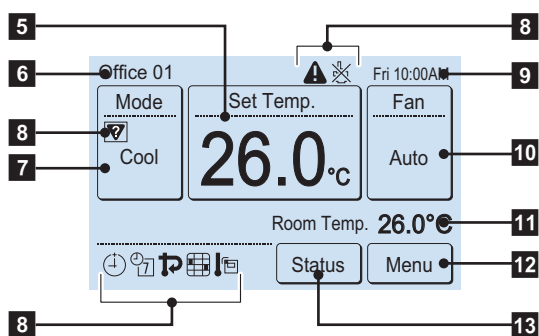
■ Accessory

Name and shape	Q'ty	Application
 CD-ROM	1	
 Screw	2	For installing the remote controller
 Cable tie	1	For remote controller and remote controller cable binding
 Installation manual	1	
 Operation manual	1	

Overview



Display panel



1 Remote temperature sensor (inside)

2 On/off button

Operable only while displaying the "Monitor mode" screen.

3 LED lamp (operation indicator)

4 Touch panel display

5 Set temperature

Operating temperature can be set.

6 Remote controller group name

7 Mode

Operation mode can be set.

8 Status icons

9 Clock

10 Fan

Fan speed can be set.

11 Room temperature

12 Menu

Various settings can be set.

13 Status

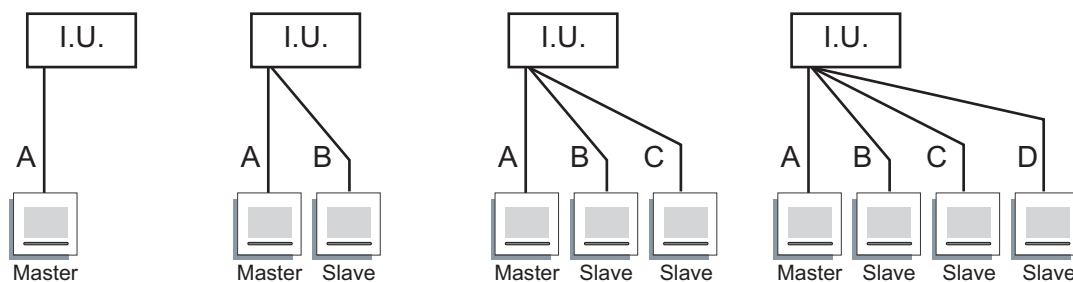
Status of the indoor unit and error can be checked.

NOTE: Functions may differ by type of the indoor unit. For details, refer to the operation manual.

■ System diagrams

• Multiple remote control

Up to 4 remote controllers can be used to operate the indoor units.



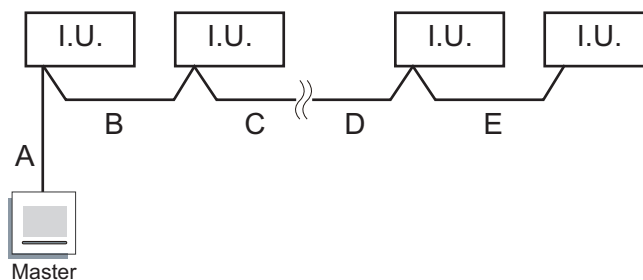
A, B, C, D: Remote controller cable (For details of controller cable specifications, refer to "Controller cable" in Chapter 6. SYSTEM DESIGN.)

$A \leq 500$ m, $A + B \leq 500$ m, $A + B + C \leq 500$ m, $A + B + C + D \leq 500$ m

NOTE: Multiple installation method described above is prohibited to combine with 3-wired type remote controller (UTY-RNK*, UTY-RSK*, or UTY-RHK*) and 2-wired type remote controller (UTY-RNR*, UTY-RNR*Z*, or UTY-RLR*)

• Group control

With a single remote controller, up to 16 indoor units can be simultaneously operated.

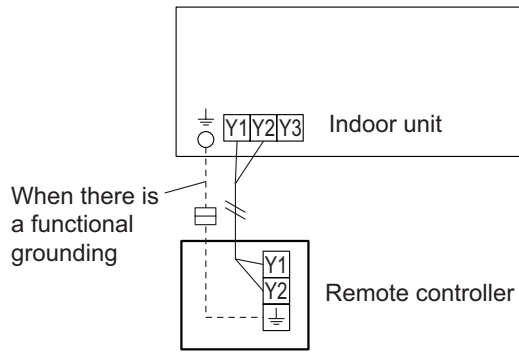


A, B, C, D, E: Remote controller cable (For details of controller cable specifications, refer to "Controller cable" in Chapter 6. SYSTEM DESIGN.)

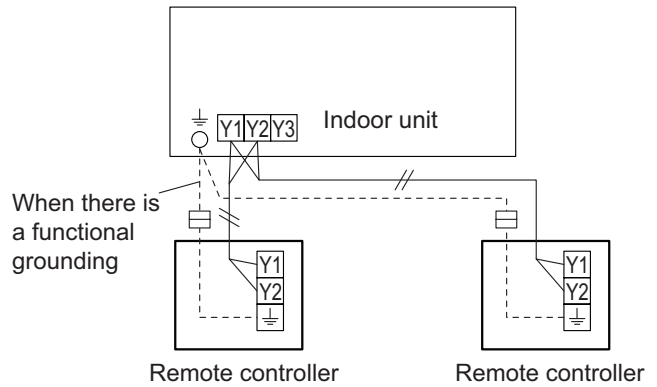
$A + B + C + D + E \leq 500$ m

Electrical wiring

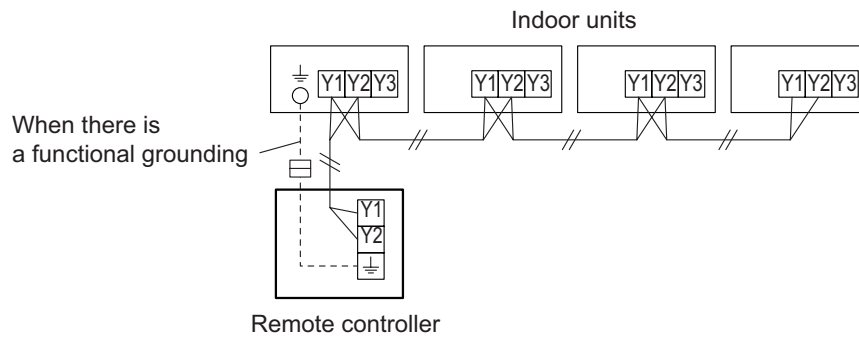
1 remote controller:



2 remote controllers:

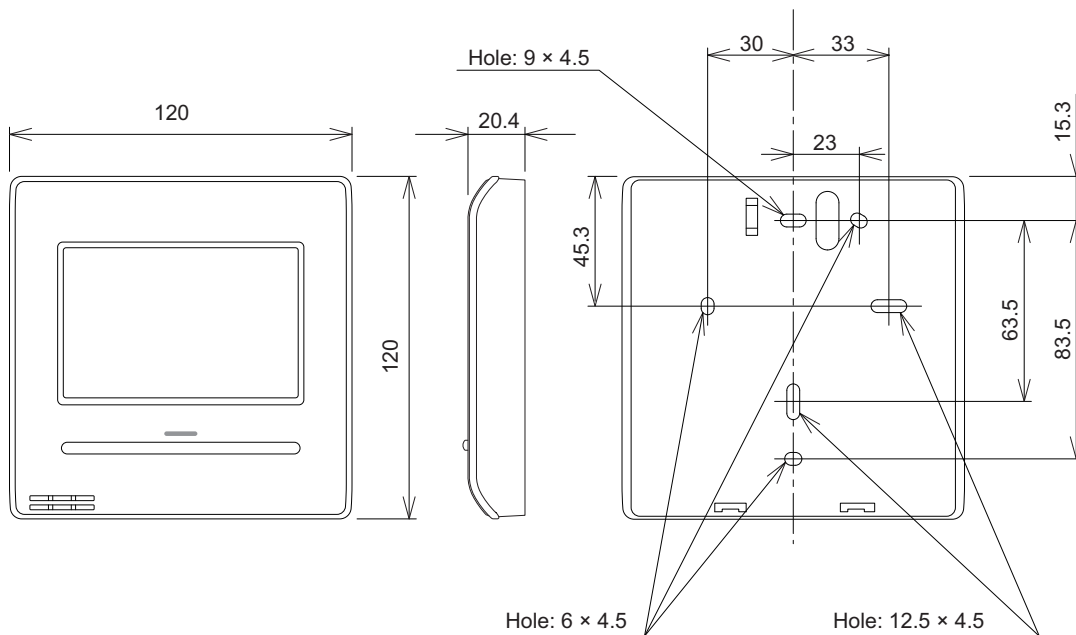


Group control:



Dimensions

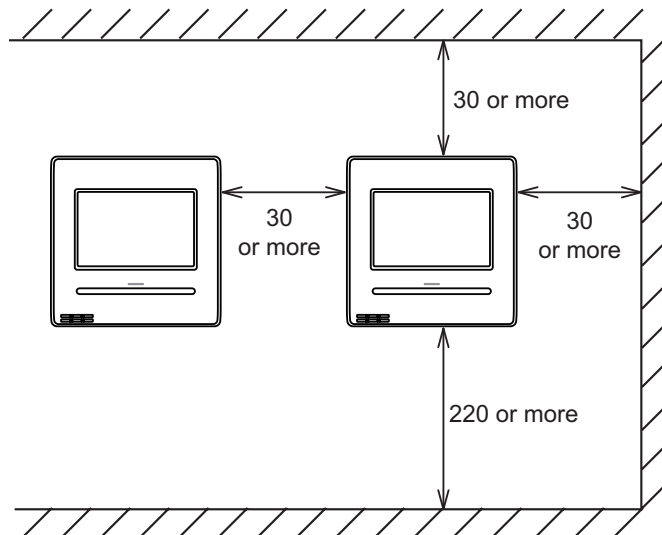
Unit: mm



■ Installation space

- This product cannot be installed in wall.
- Recommendation installation height of the remote controller is from the floor surface to the bottom of the remote controller.
- Even when you install a remote controller to one of a switch box and the surface of a wall, secure the space shown in following figure. If spaces run short, it will become difficult to remove a remote controller.

Unit: mm



Secure enough space where a flat-blade screwdriver to take off a case can be inserted.

■ Installation

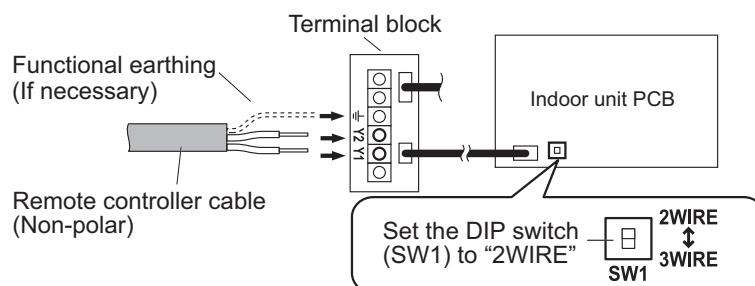
- **Connection pattern**

NOTE: Connection pattern is different according to type of Indoor unit.

Indoor unit type	Connection pattern
All cassette type	Pattern A
All duct type	Pattern A
All floor type	Pattern A
Floor/Ceiling type	Pattern A
All ceiling type	Pattern A
All wall mounted type	Pattern B

- **Pattern A**

1. Connect the end of remote controller cable directly to the exclusive terminal block.
2. Set the DIP switch (SW1) to "2WIRE" on the PCB of the indoor unit.

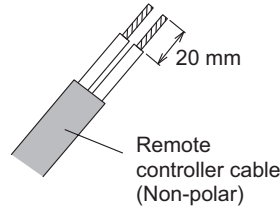


NOTES:

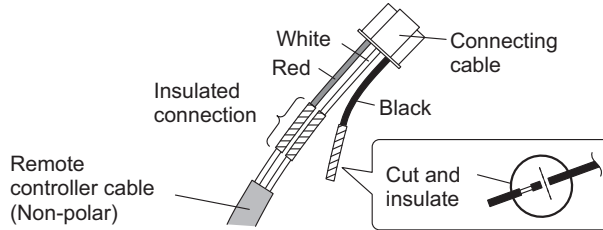
- Layout of terminal block and PCB is varies depending on the type of indoor unit.
- Operation may fail if it is connected to the outdoor unit or the terminal block for power supply.

• **Pattern B**

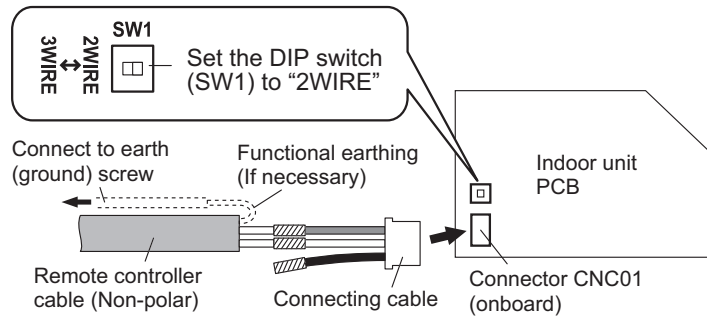
1. Use a tool to cut off the terminal on the end of the remote controller cable, and then remove the insulation from the cut end of the cable as shown below.



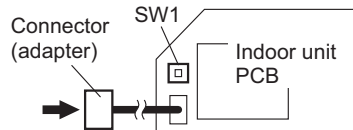
2. Connect the remote controller cable and connecting cable as shown below. Be sure to insulate the connection between the cables.



3. Connect the remote controller cable to the connecting cable, and insert it to the connector. Set the DIP switch (SW1) to "2WIRE" on the PCB of the indoor unit.



NOTE: Layout of terminal block and PCB is varies depending on the type of indoor unit.



CONTROL SYSTEM

CONTROL SYSTEM

■ Specifications

Input voltage	V	DC 12
Power consumption	W	Max. 0.3
Display		3.8-inch FSTN LCD (255 × 160 dots) with touch panel
Usage temperature range	°C	0 to 40
Usage humidity range	%	20 to 90 (no condensation)
Storage temperature range	°C	-10 to 60
Storage humidity range	%	20 to 90 (no condensation)
Dimensions (H × W × D)	mm	120 × 120 × 20.4
Weight	g	220

● Wiring specifications

Use	Cable size	Wire type	Remarks
Remote controller cable	0.33 to 1.25 mm ² (22 to 16 AWG)	Non polar 2-core	Use sheathed twist pair cable.*

*: Use shielded cable (locally purchased) in accordance with the regional cable standard.